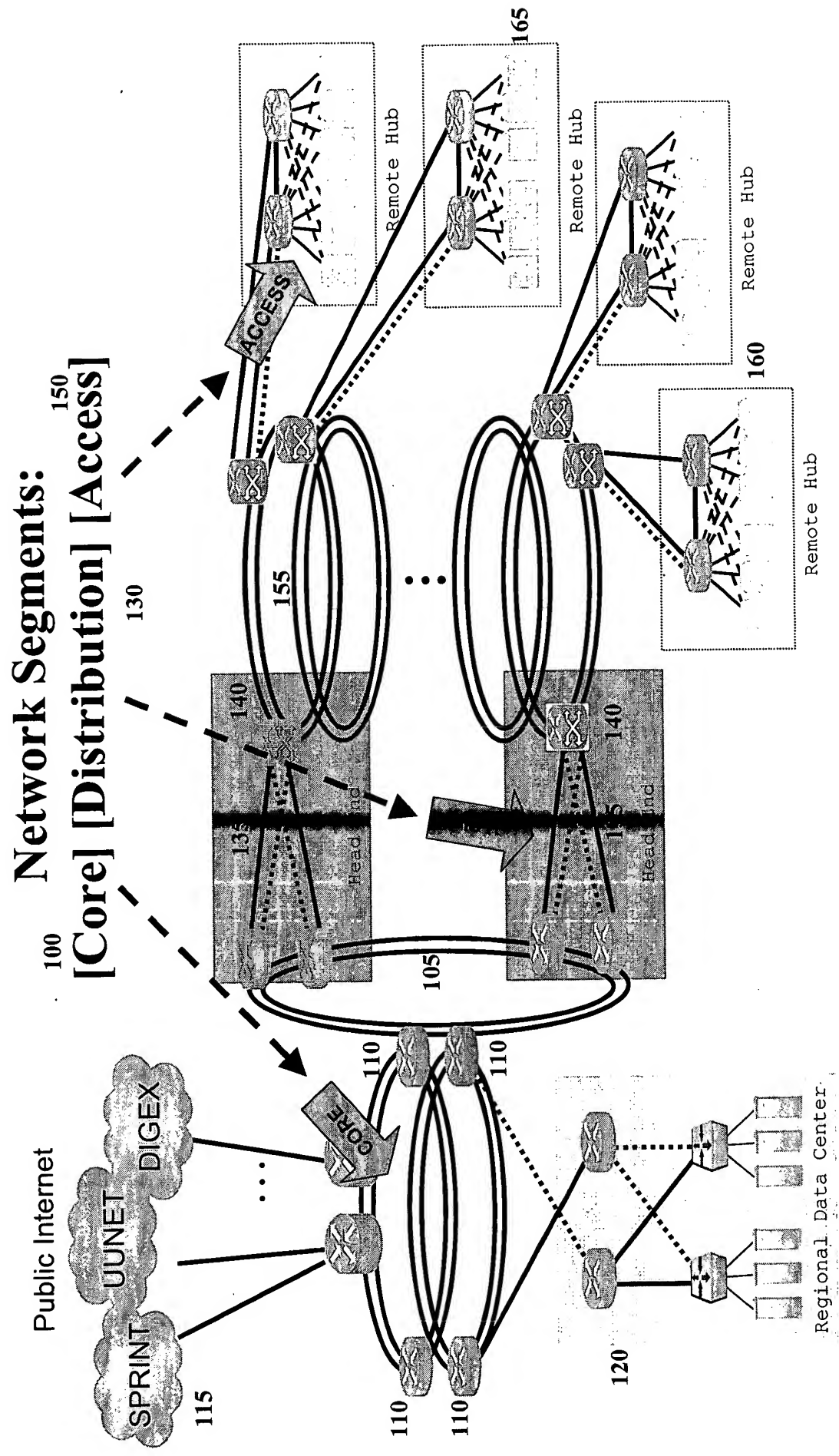


# Figure 1

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
Kurt A. DOBBINS



**Figure 2**

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
Kurt A. DOBBINS

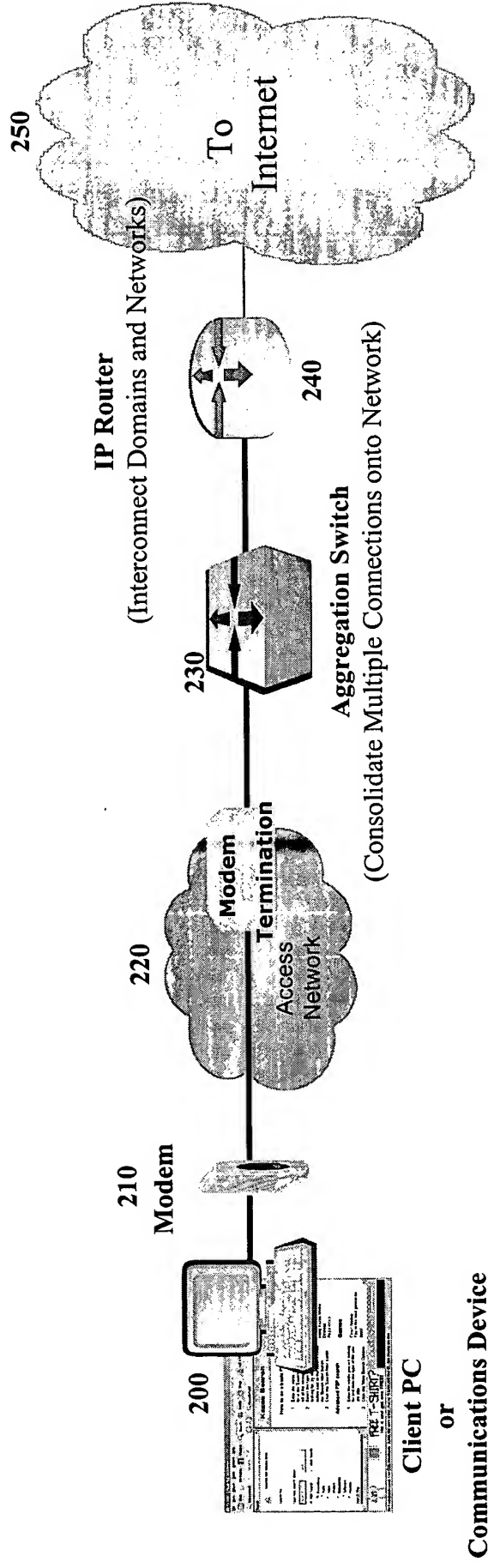


Figure 3

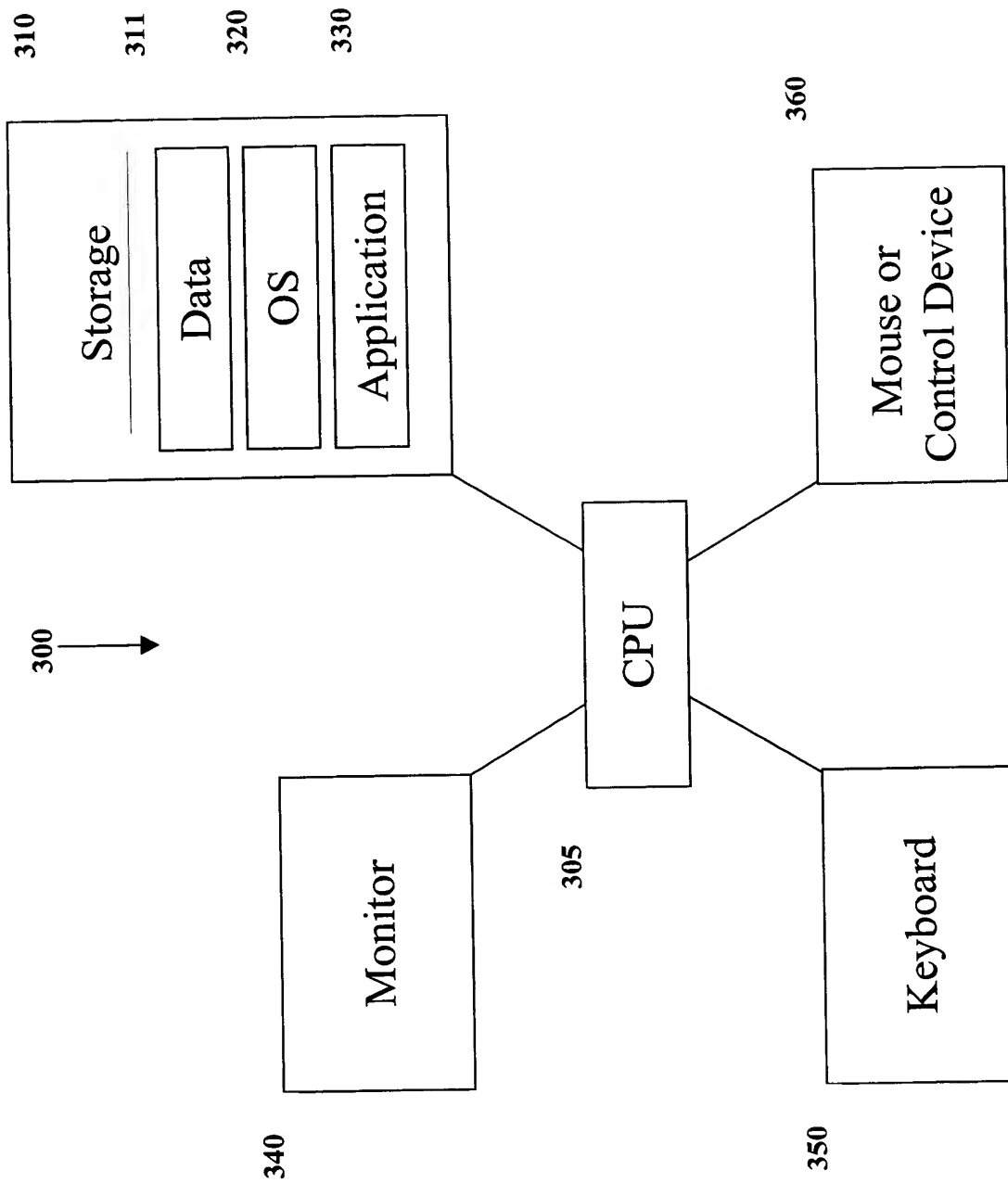
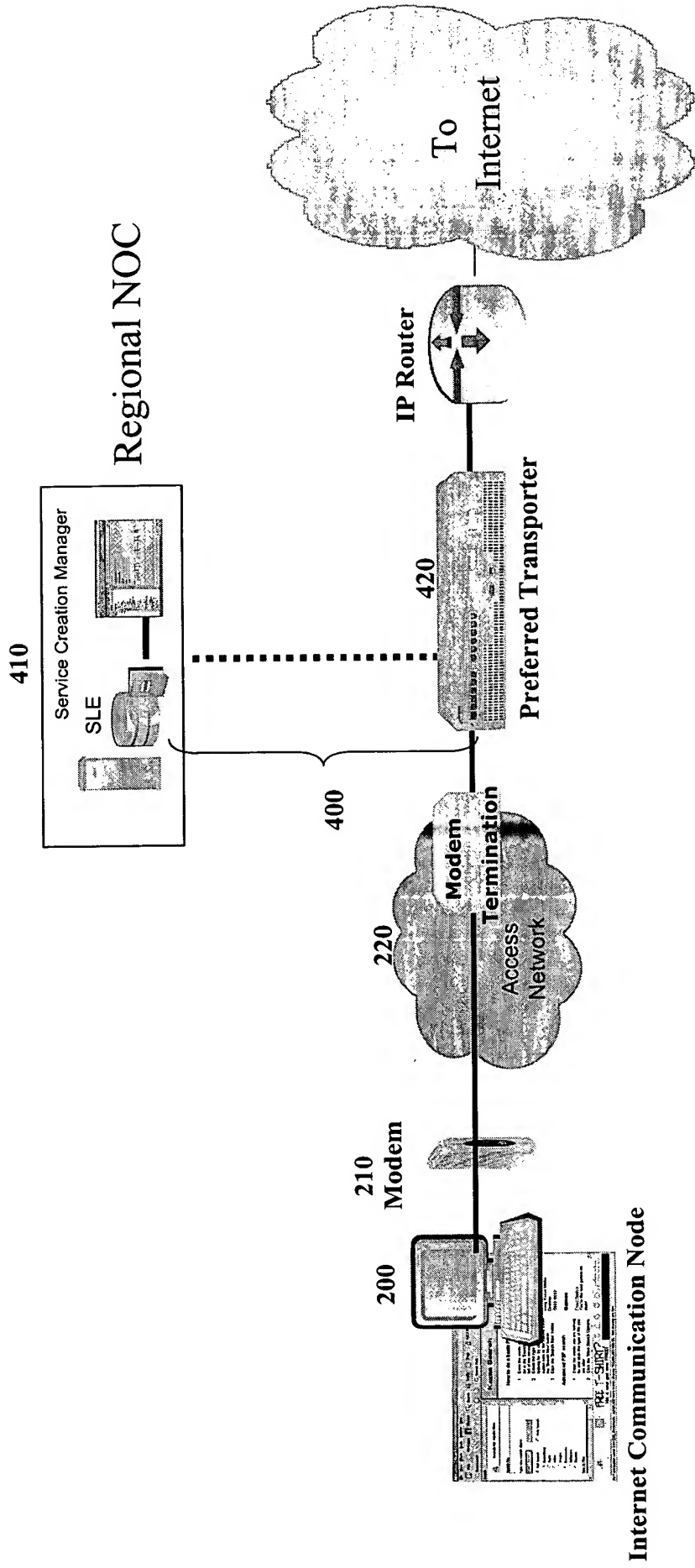


Figure 4

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
Kurt A. DOBBINS



**Figure 5**

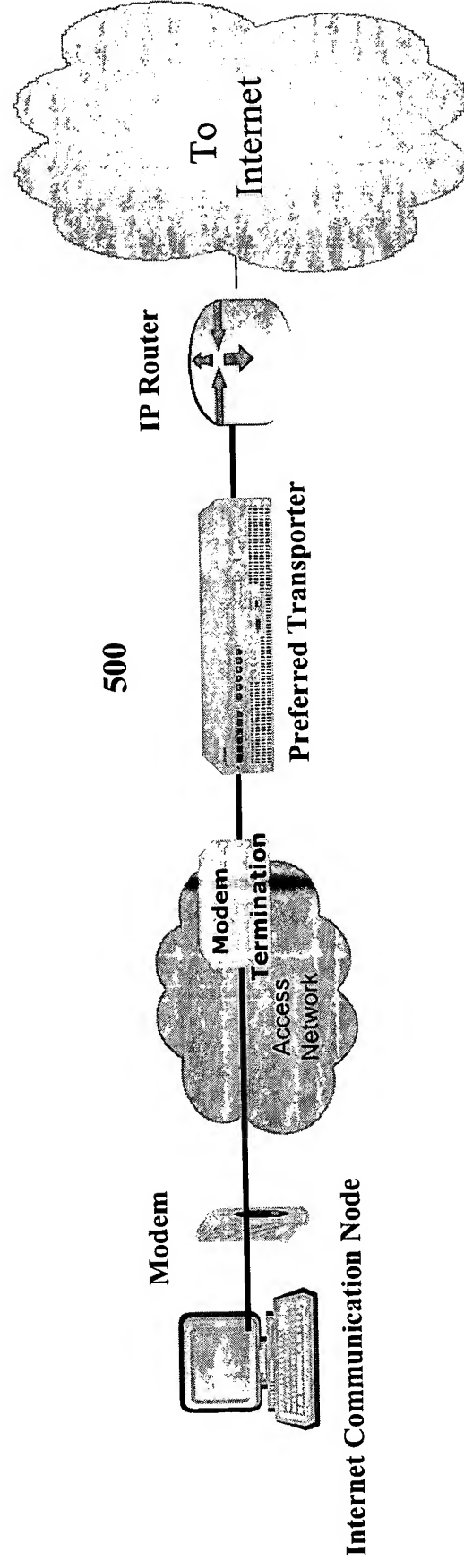
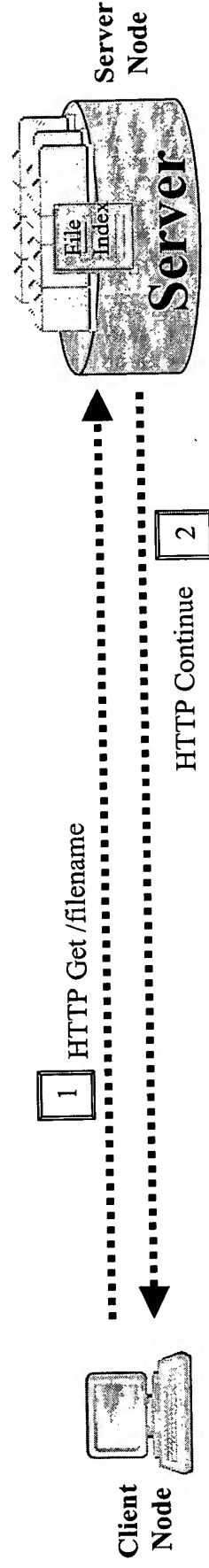


Figure 6

In Client/Server  
networks, nodes  
act only as clients

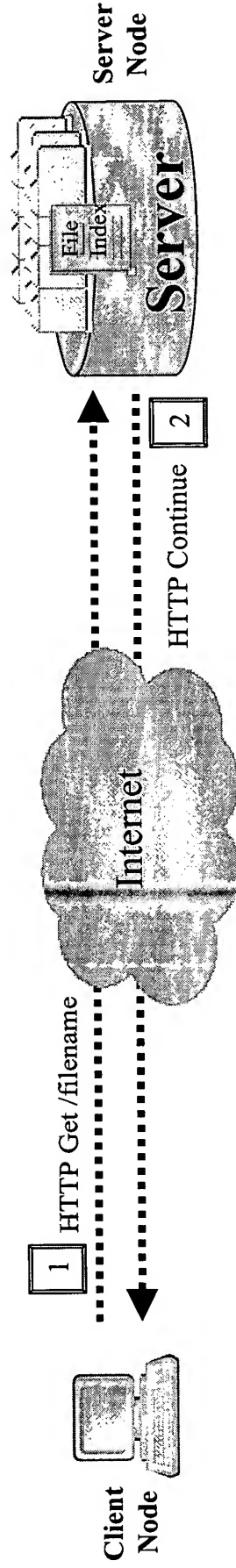


1. Client requests file
2. Server returns file

# Figure 7

In Client/Server networks, nodes act only as clients

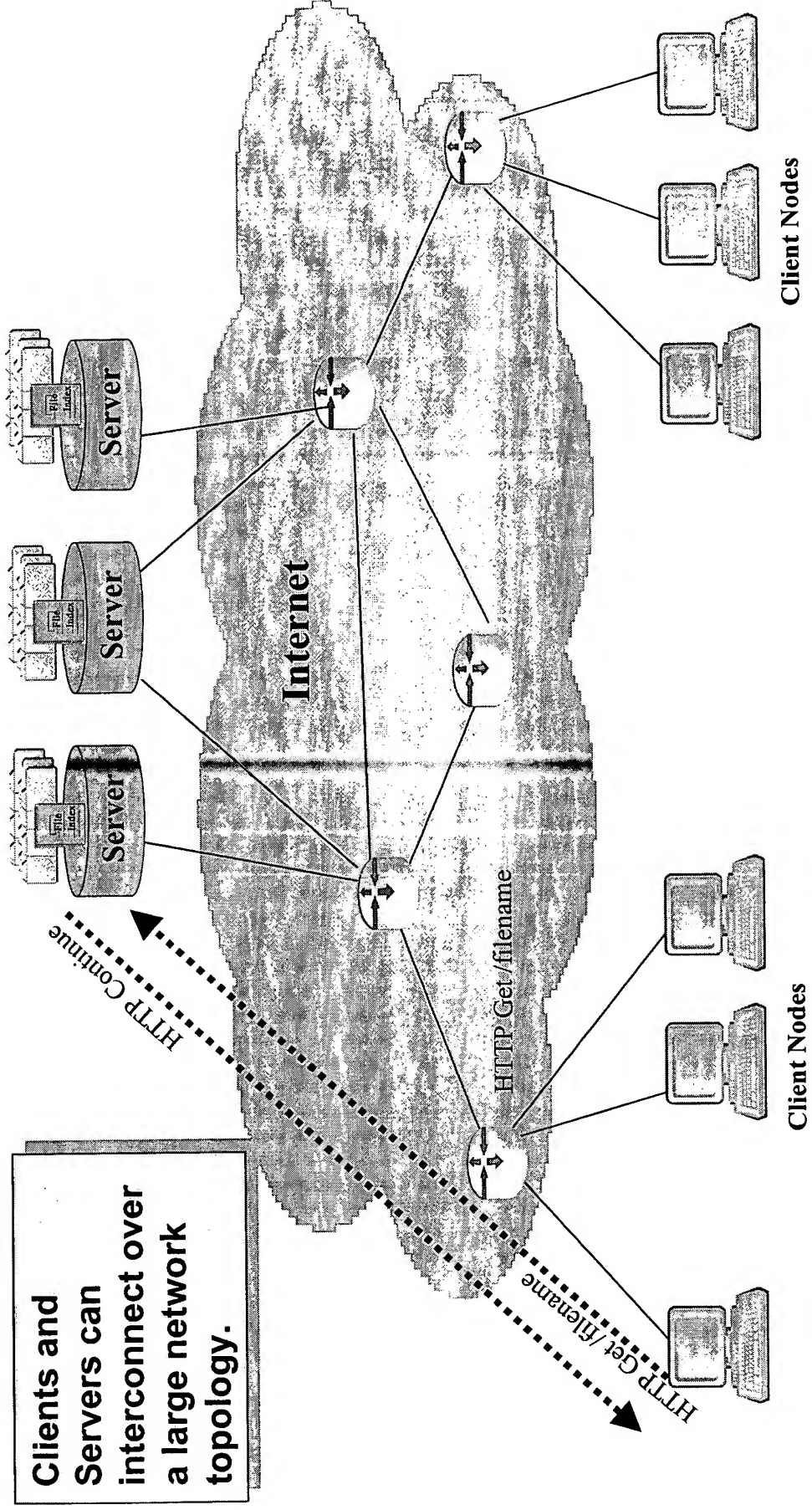
METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
Kurt A. DOBBINS



1. Client requests file
2. Server returns file

**Figure 8**

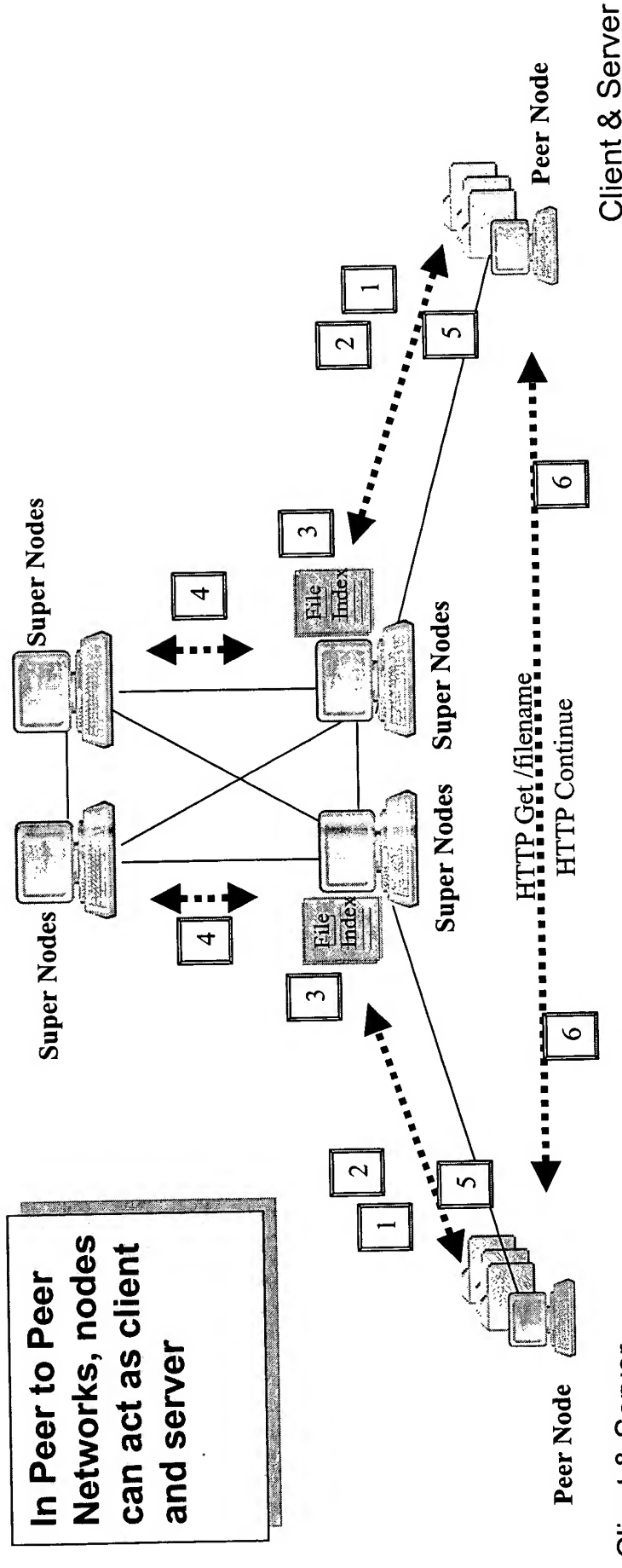
METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
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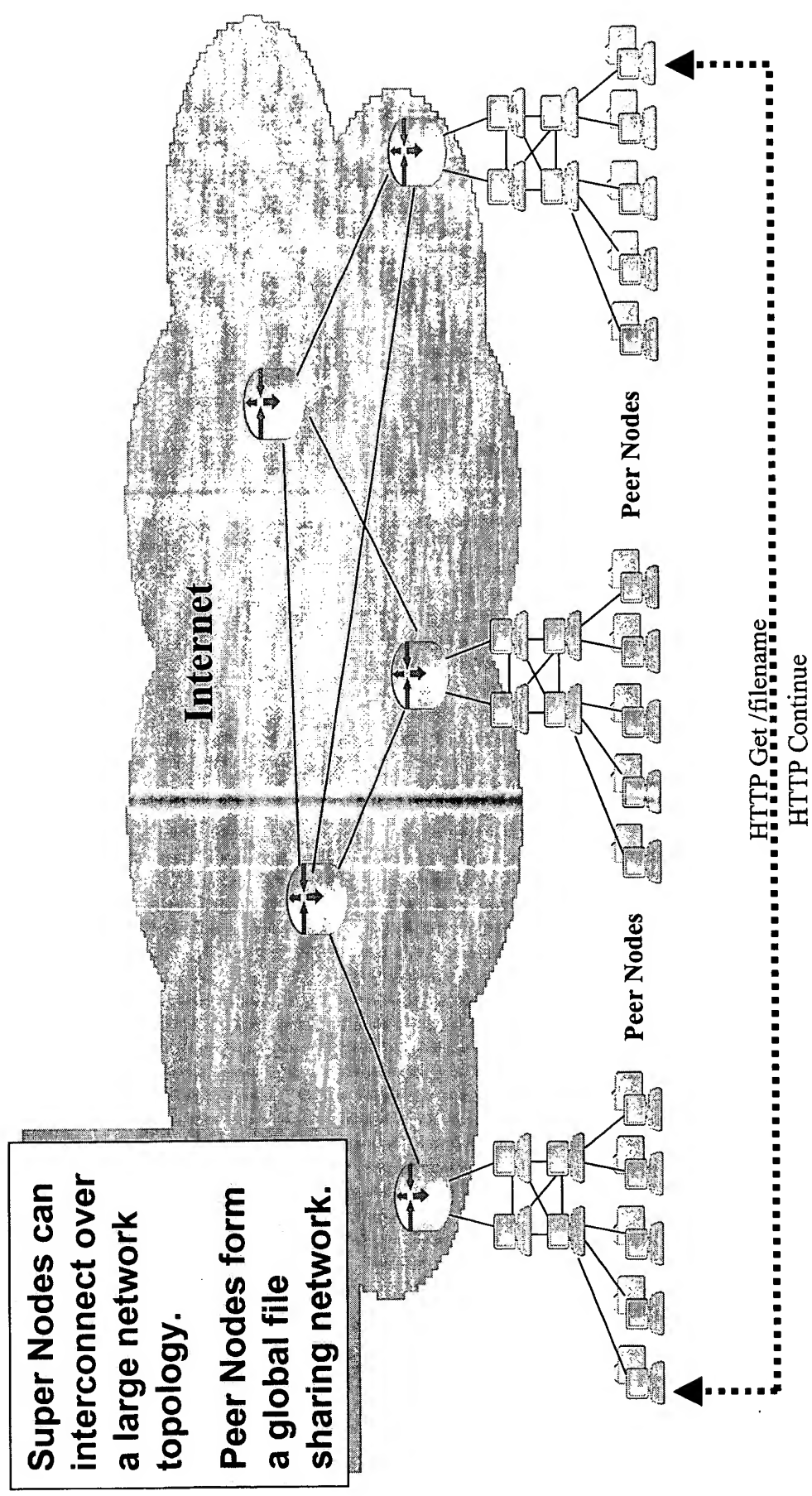
# Figure 9

**In Peer to Peer Networks, nodes can act as client and server**



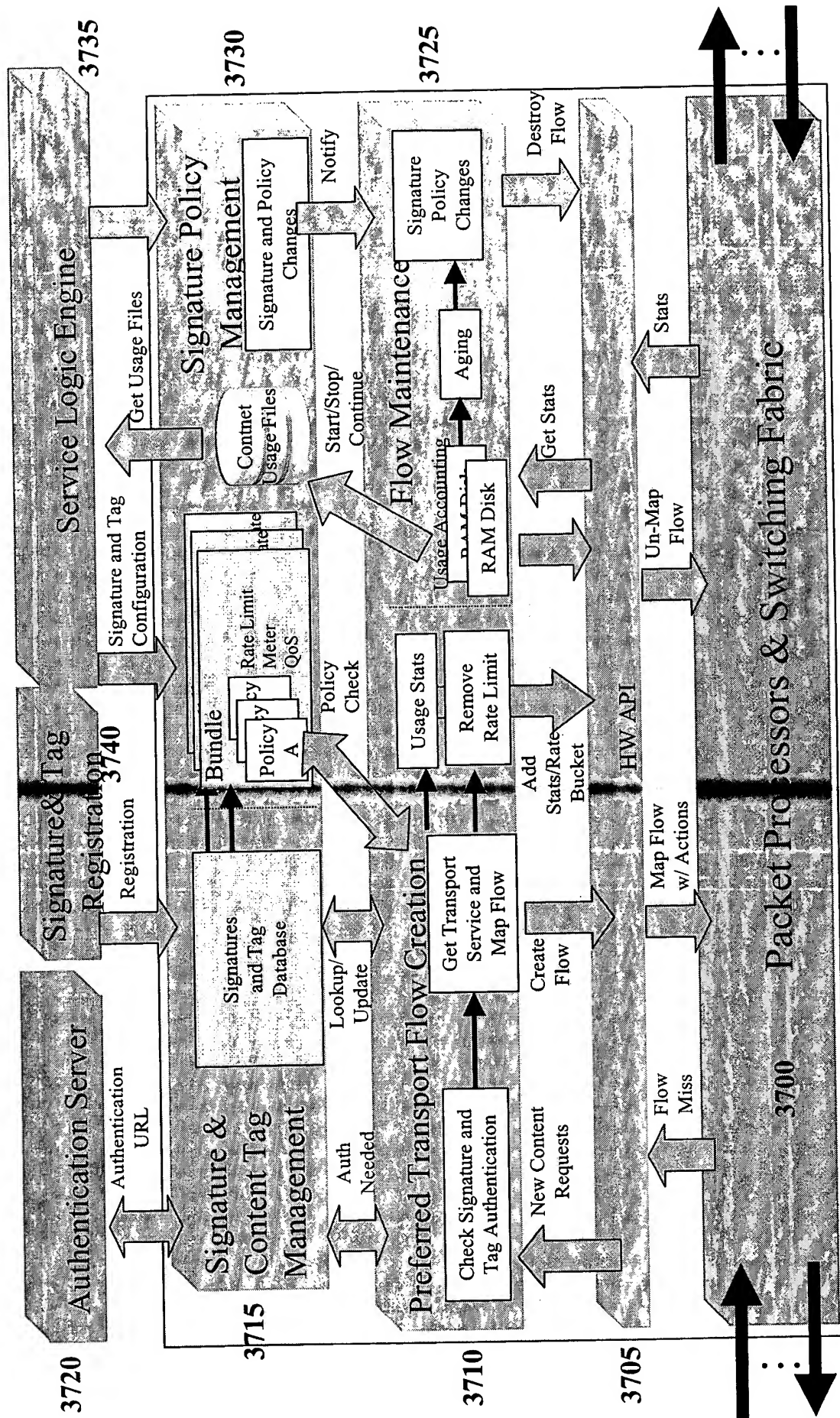
**Figure 10**

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
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# Figure 11

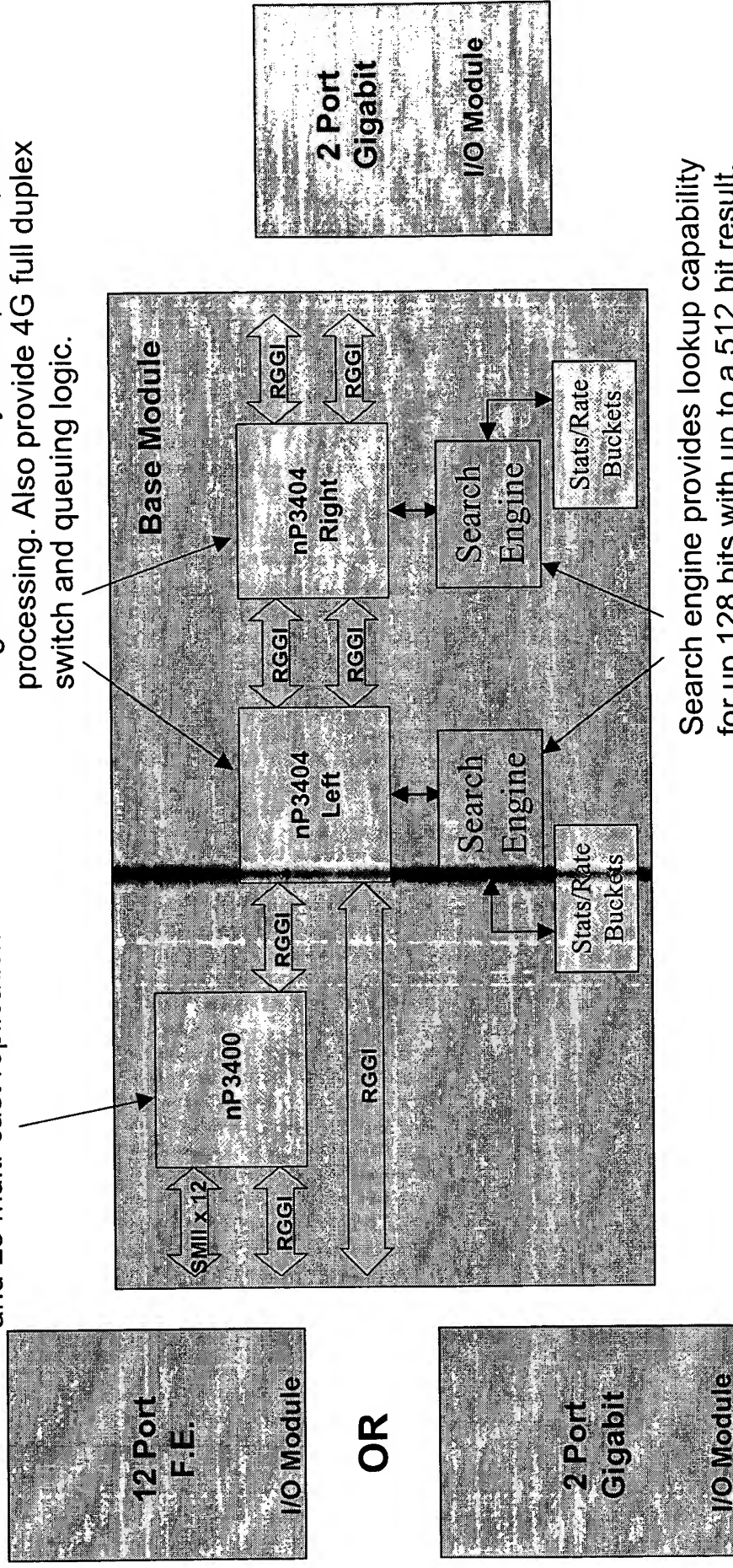
METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO.: 026215-00001  
Kurt A. DOBBINS



# Figure 12

MMC nP3400 used for F.E. aggregation  
and L3 multi-cast replication

MMC nP3404 used as network processing  
engines. Extract keys and perform packet  
processing. Also provide 4G full duplex  
switch and queuing logic.

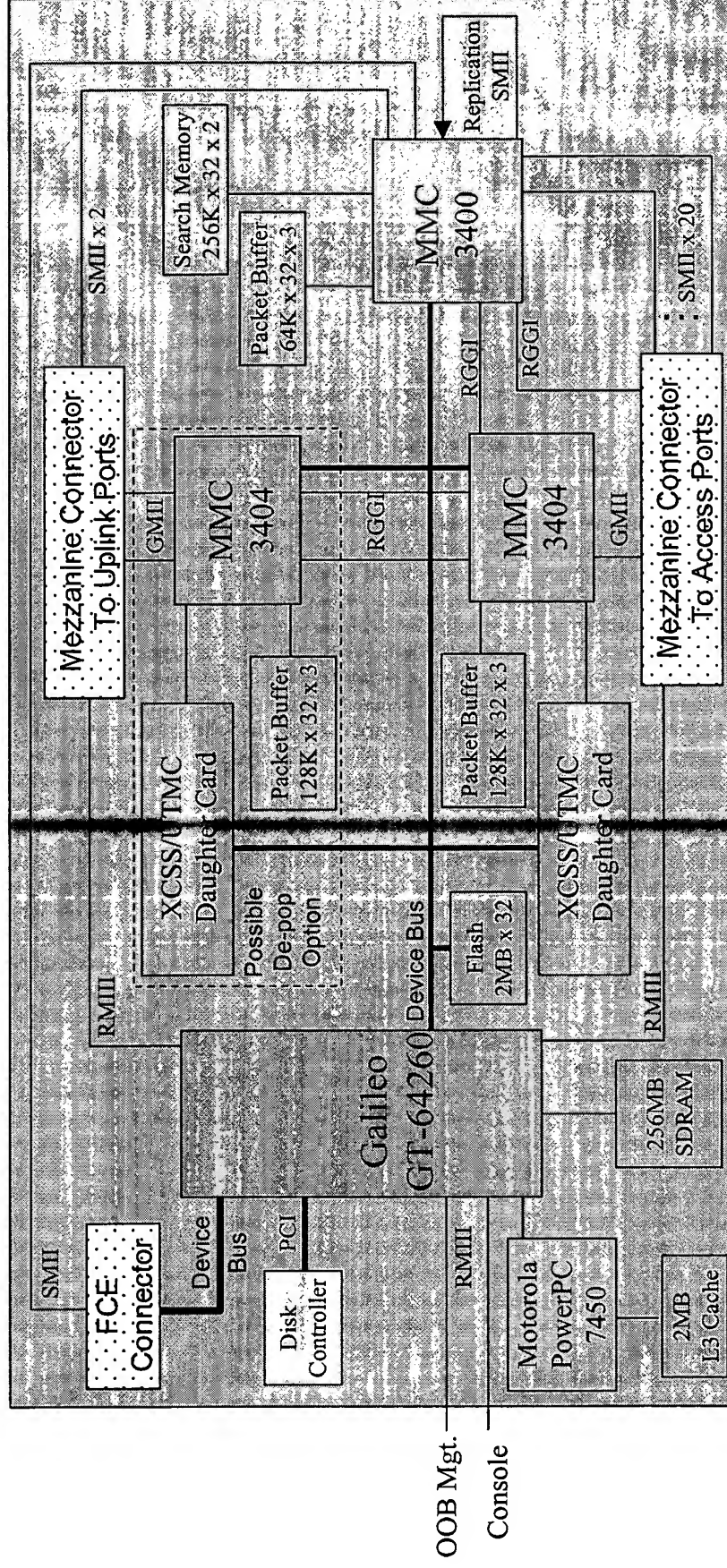


Search engine provides lookup capability  
for up to 128 bits with up to a 512 bit result.  
Also provides rate limiting and statistics  
functions.



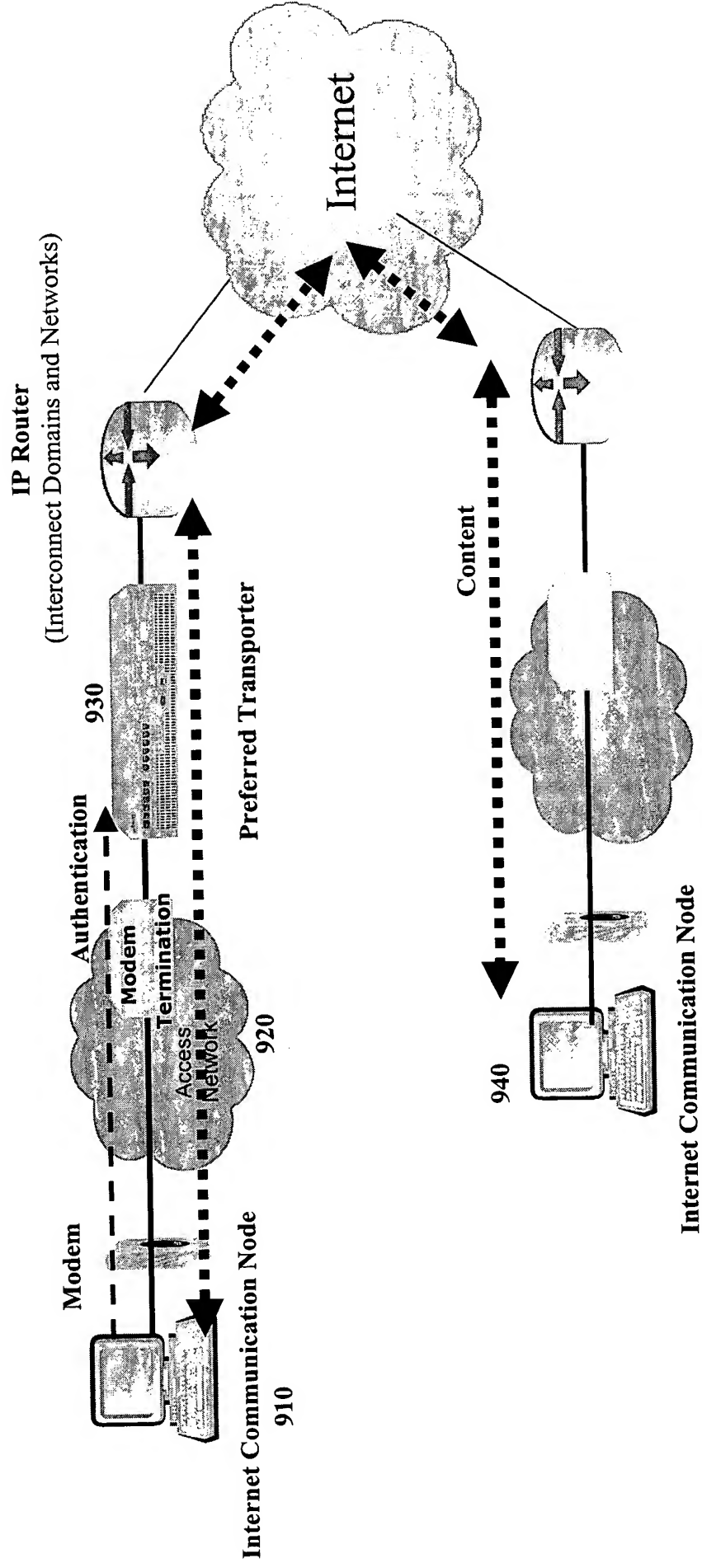
# Figure 13

METHOD AND APPARATUS FOR OFFERING PREFERRED  
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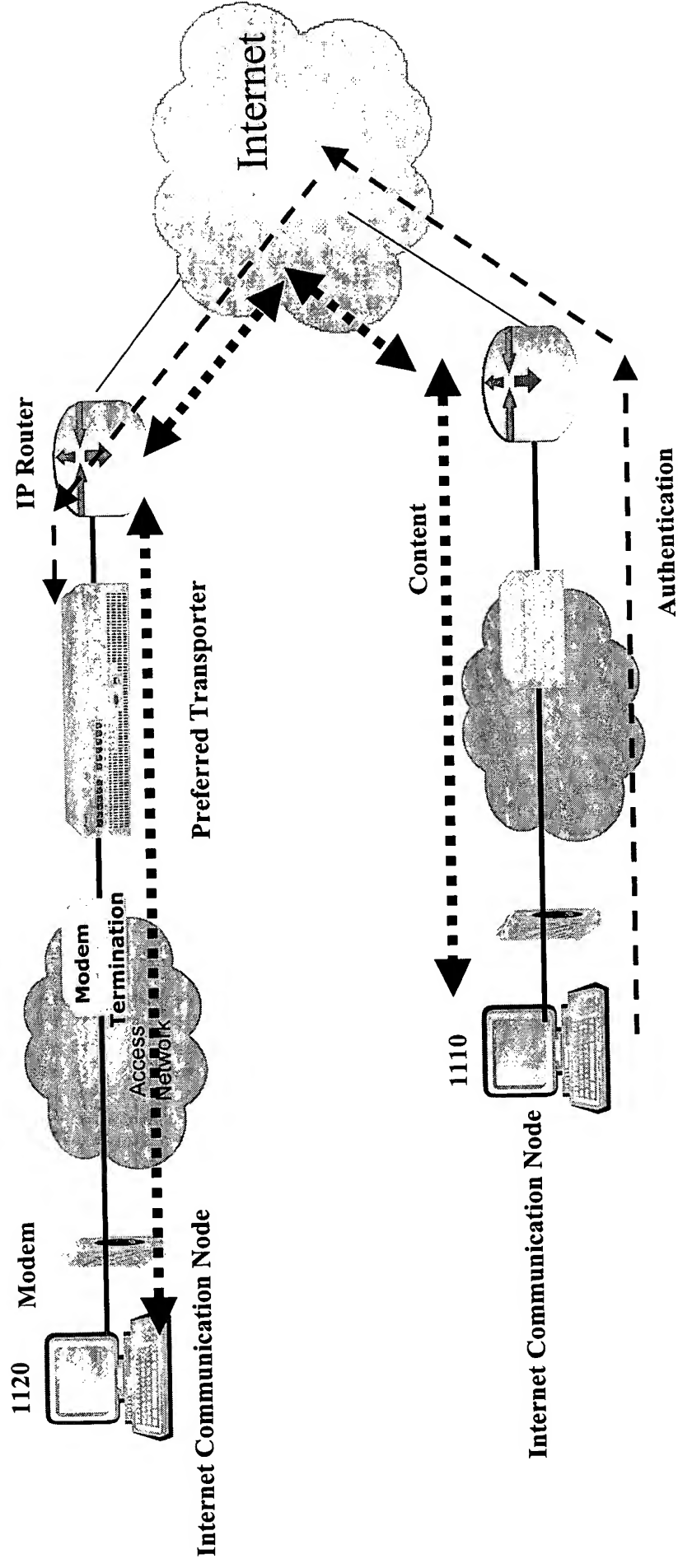
# Figure 14

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
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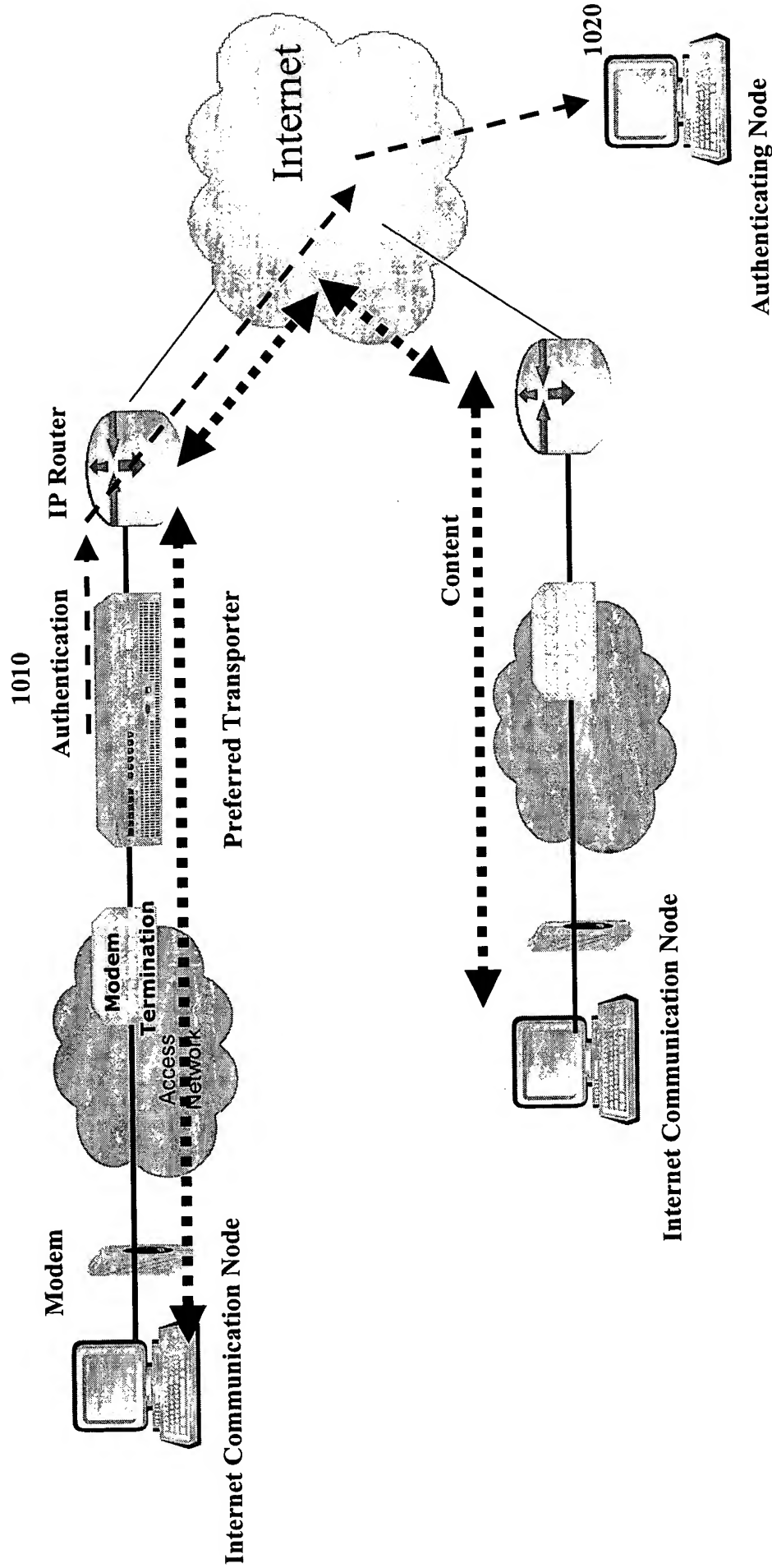
# Figure 15

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
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# Figure 16

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
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METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO.: 026215-00001  
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[illegible]

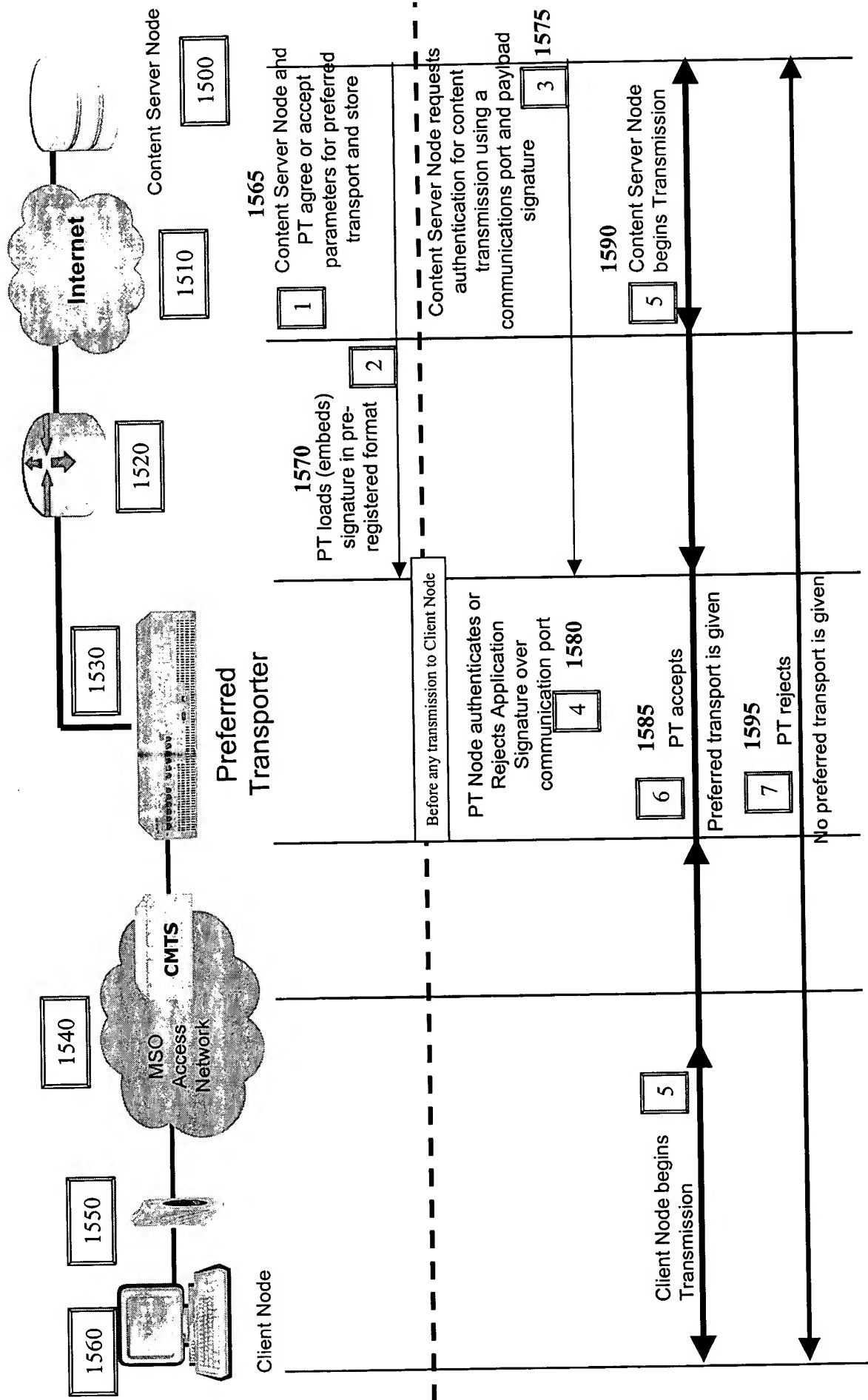
# Figure 18

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
DOCKET NO: 026215-00001  
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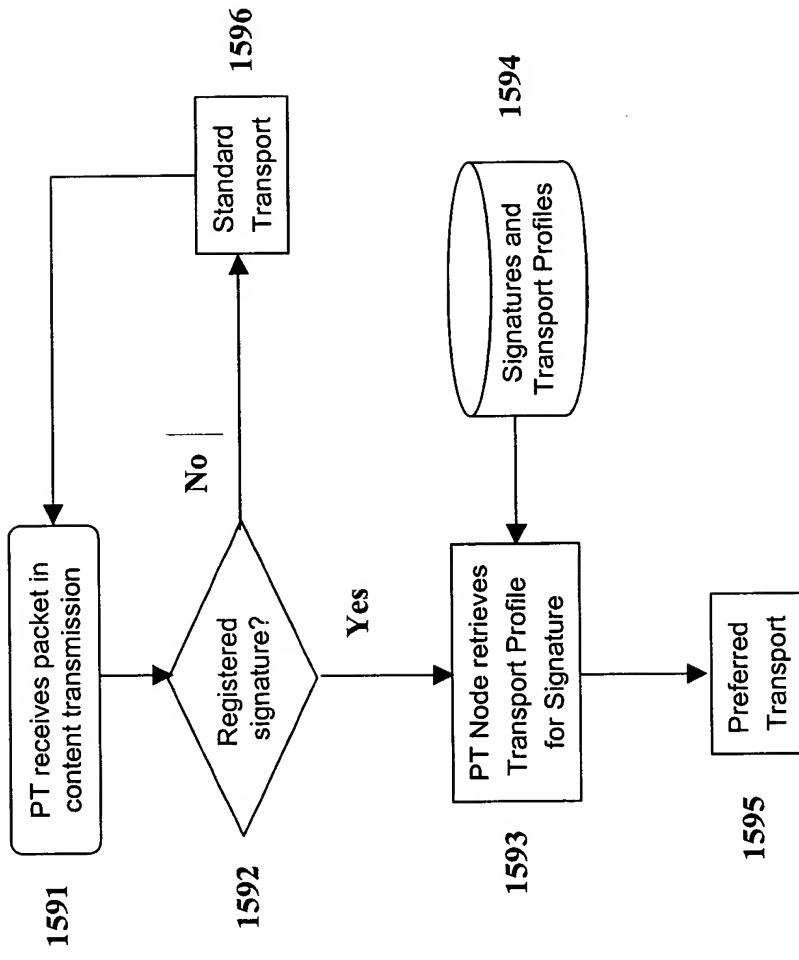
Field	Length (bytes)	Description	Comments
Tag ID	4	Well-known tag identifier. Allows different tag types to be supported	Value set to "AUTH"
Tag Length	4	Indicates the remaining length of the tag.	Maximum Length of 128 bytes
Tag Version	4	Version of Tag Structure	Value set to "1.0"
Reserved	4	Reserved for Future Use	Unused
Transport Service	4	Preferred Transport Bit Mask for Transport Service Preference.	1 = No Rate Limit    2 = No Byte Cap 4 = On-Demand BW    8 = BLOCK ACCESS
Authenticated Transport	4	Digital Signature used to authenticate preferred transport	
Reserved	8	Reserved for Future Use	Unused
Content Class/Type	16	OID syntax from Content Class naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Application	16	OID syntax from Application naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Originator	16	OID syntax from Content Originator naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Meta Data	16	OID syntax from Content Meta Data naming tree.	Encoded using ASN.1 BER {tag/len/value}
Authentication URL	32	URL of authentication server	

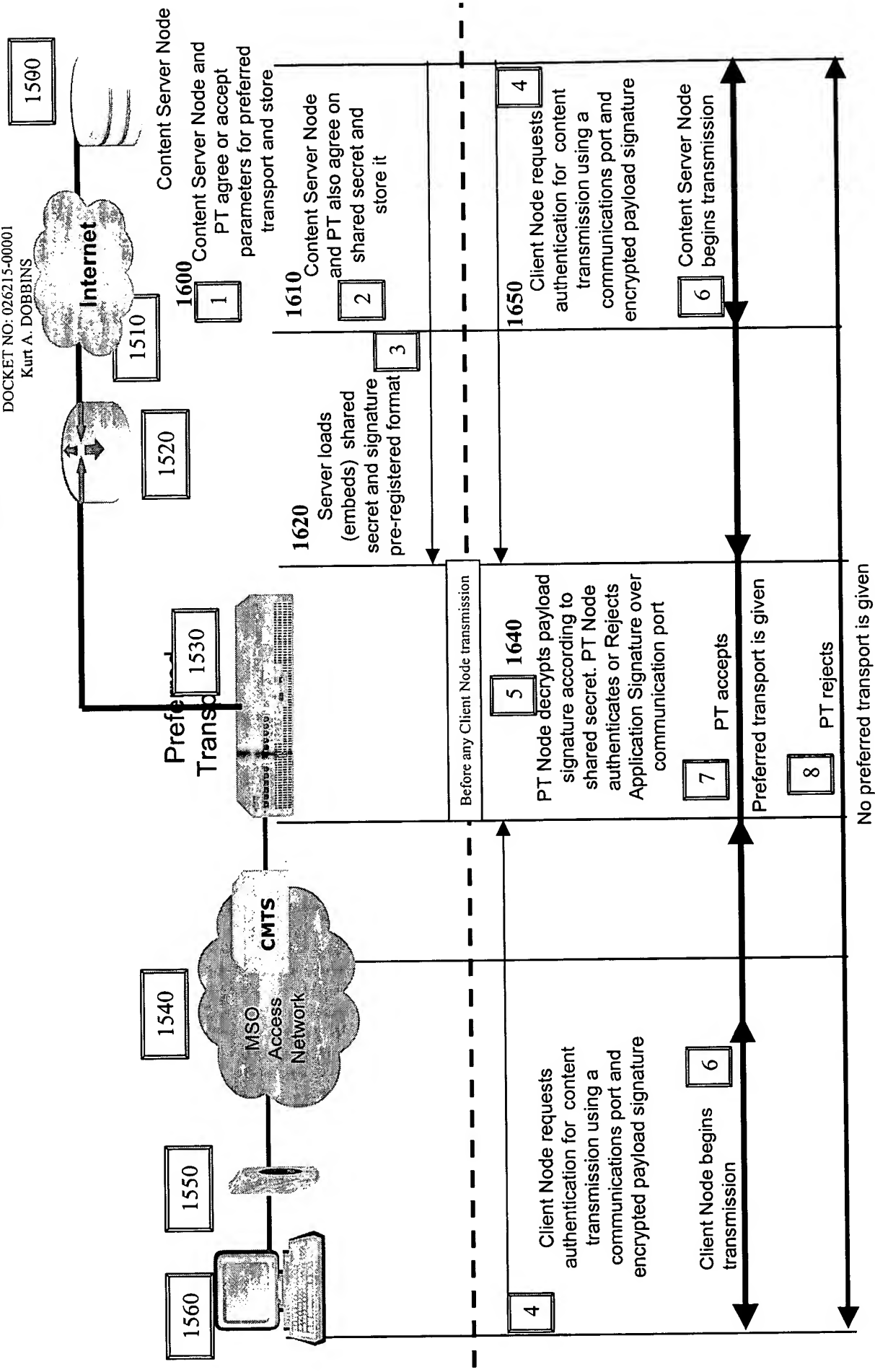
# Figure 19

METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
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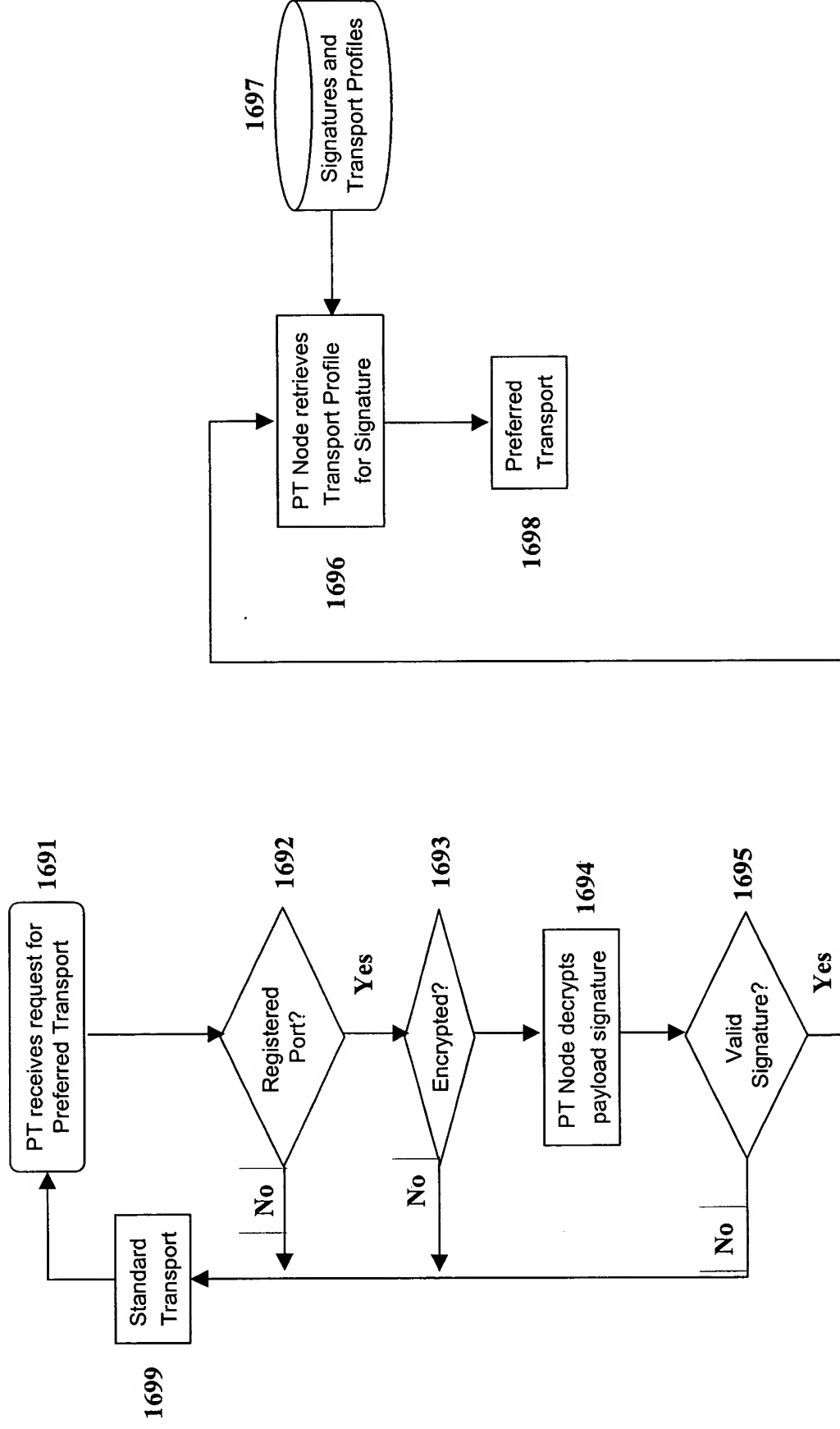


# Figure 19a

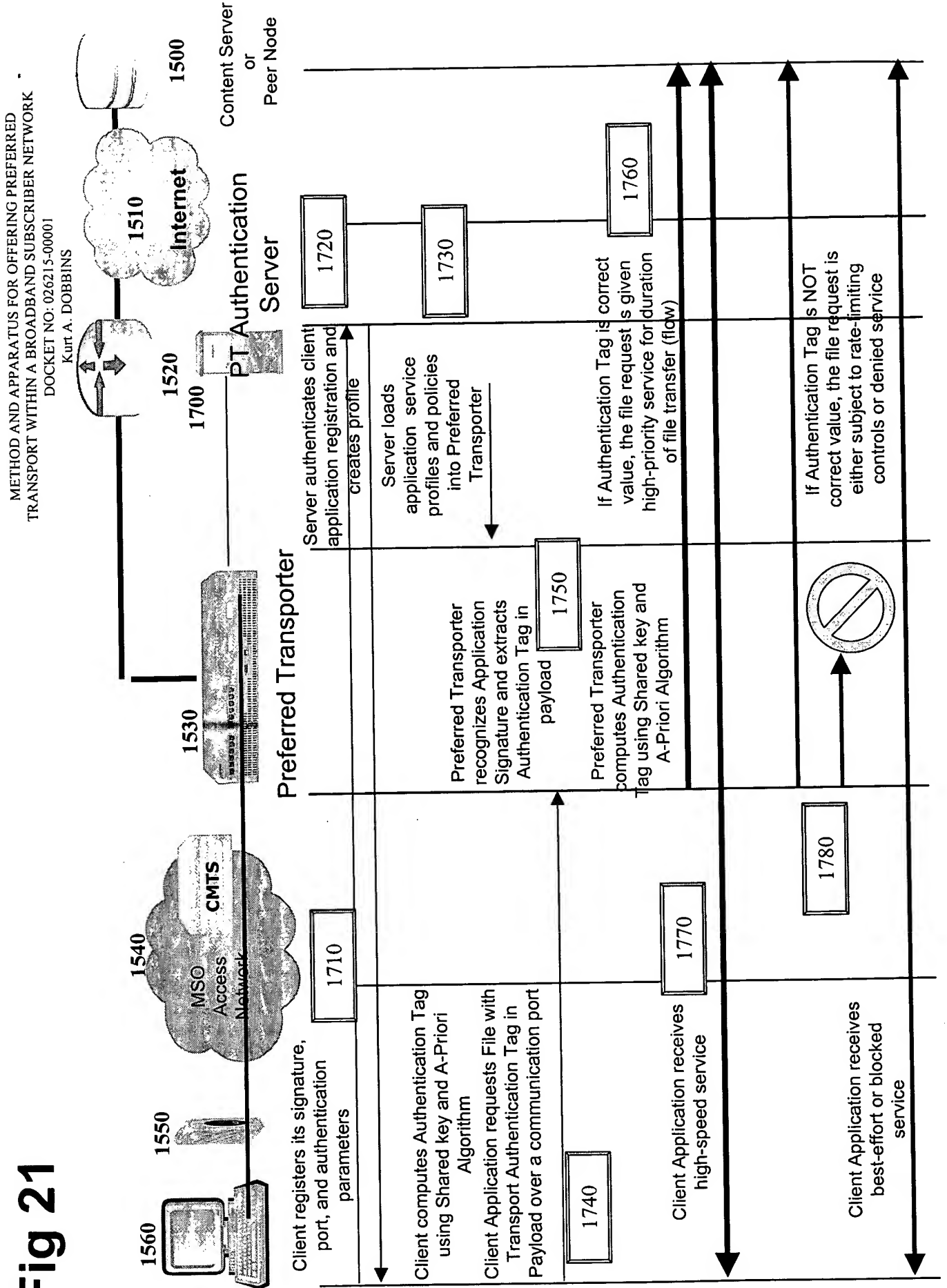




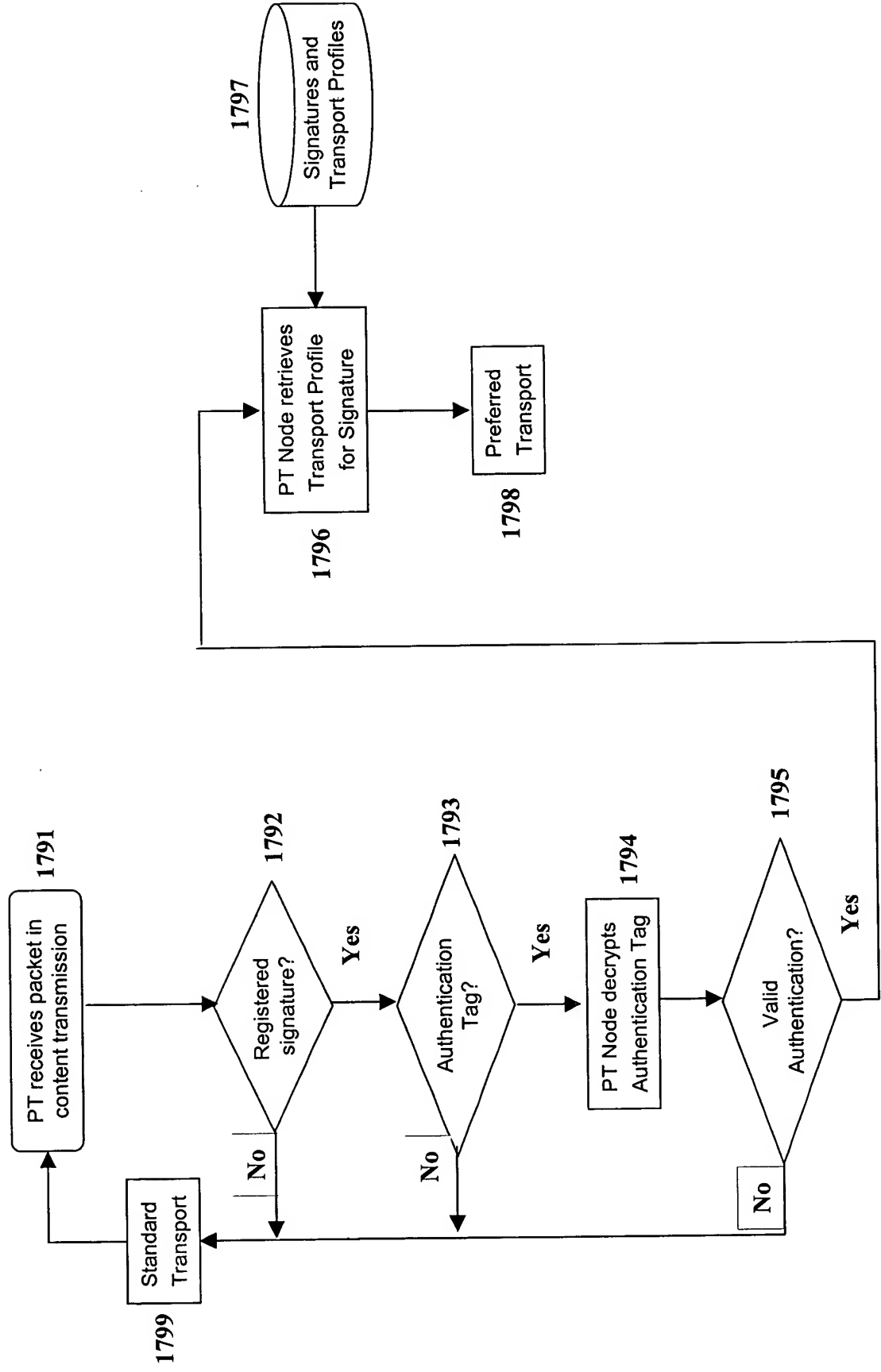
# Figure 20a



# Fig 21

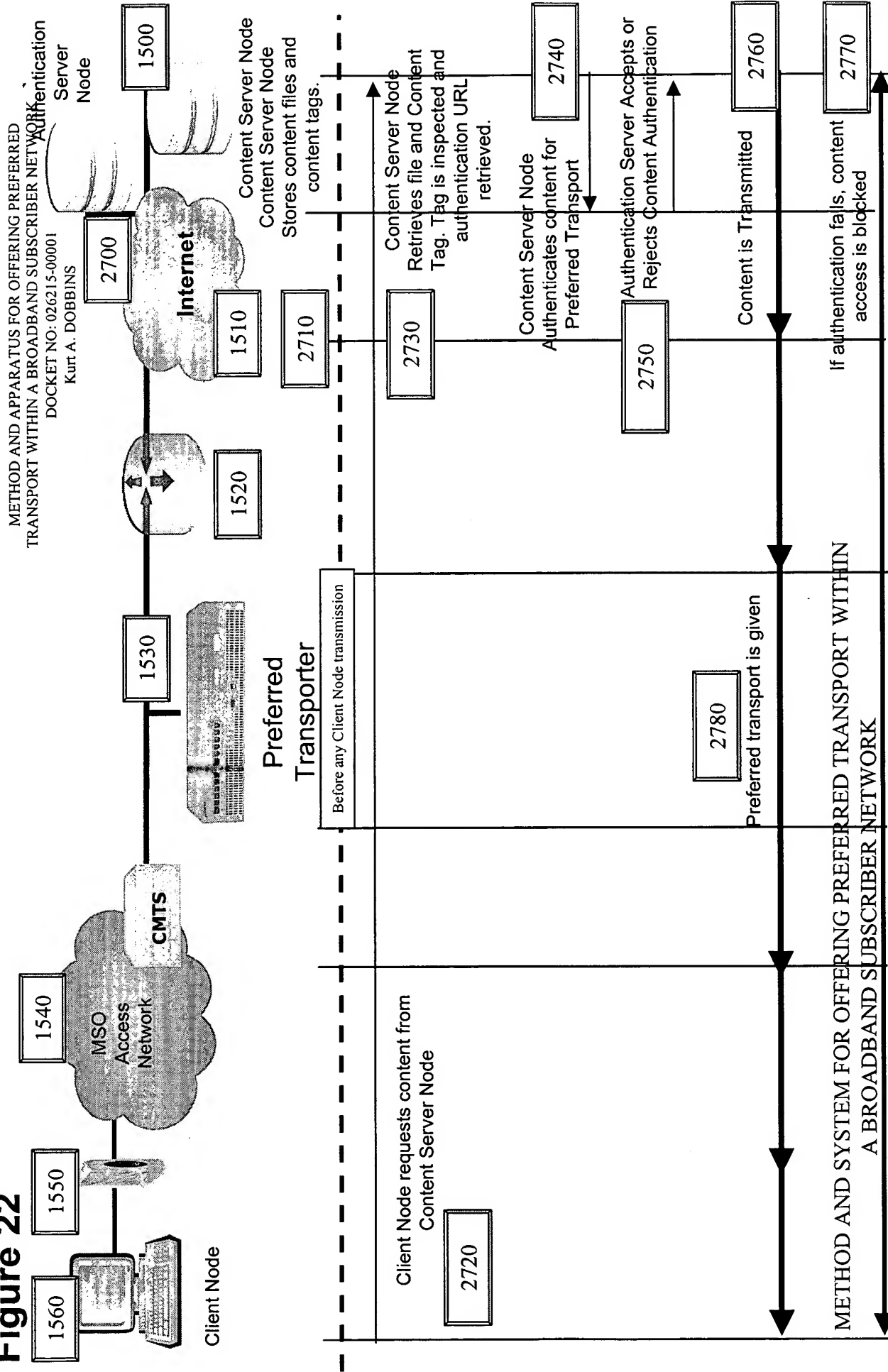


# Figure 21a

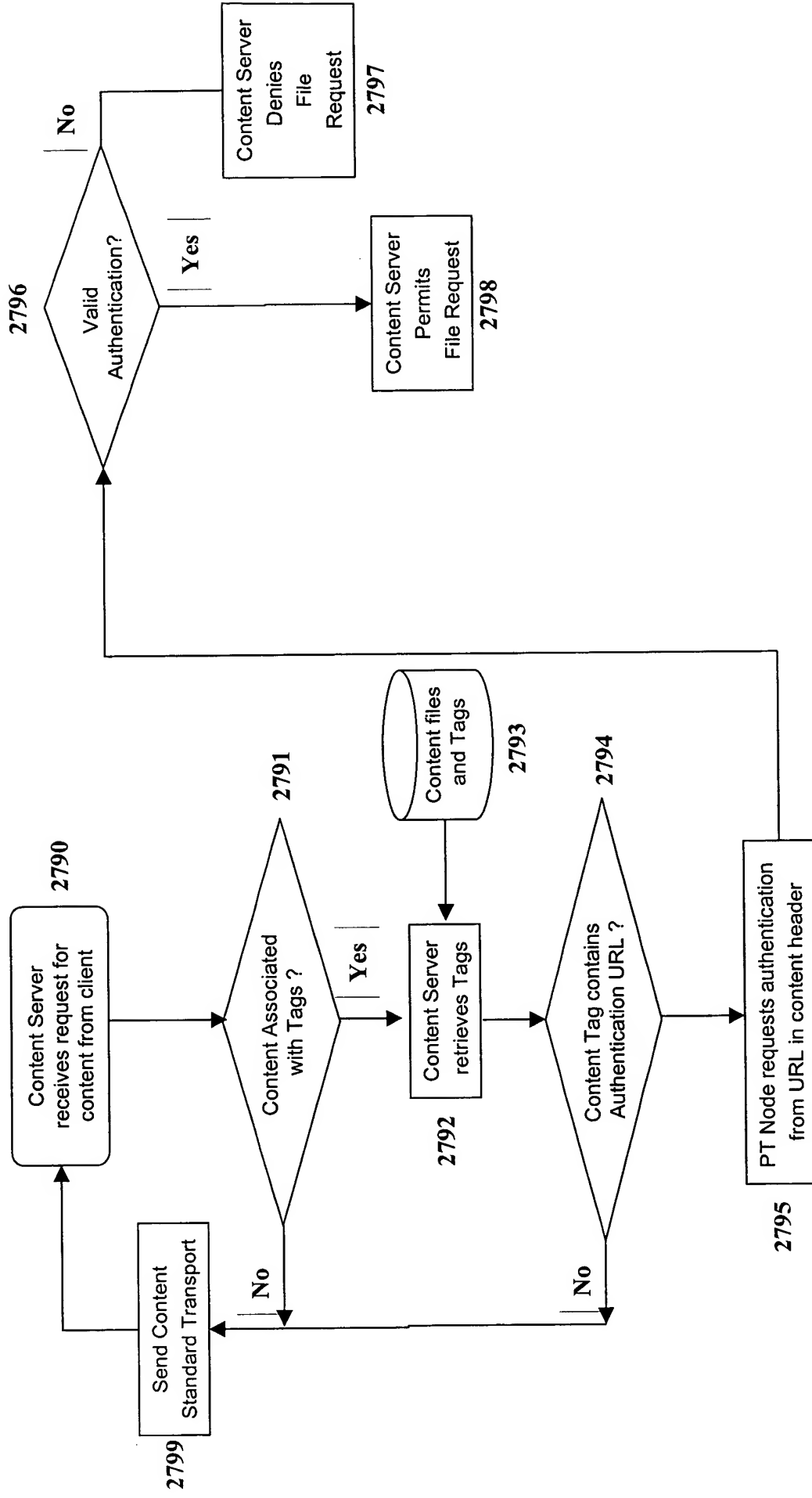




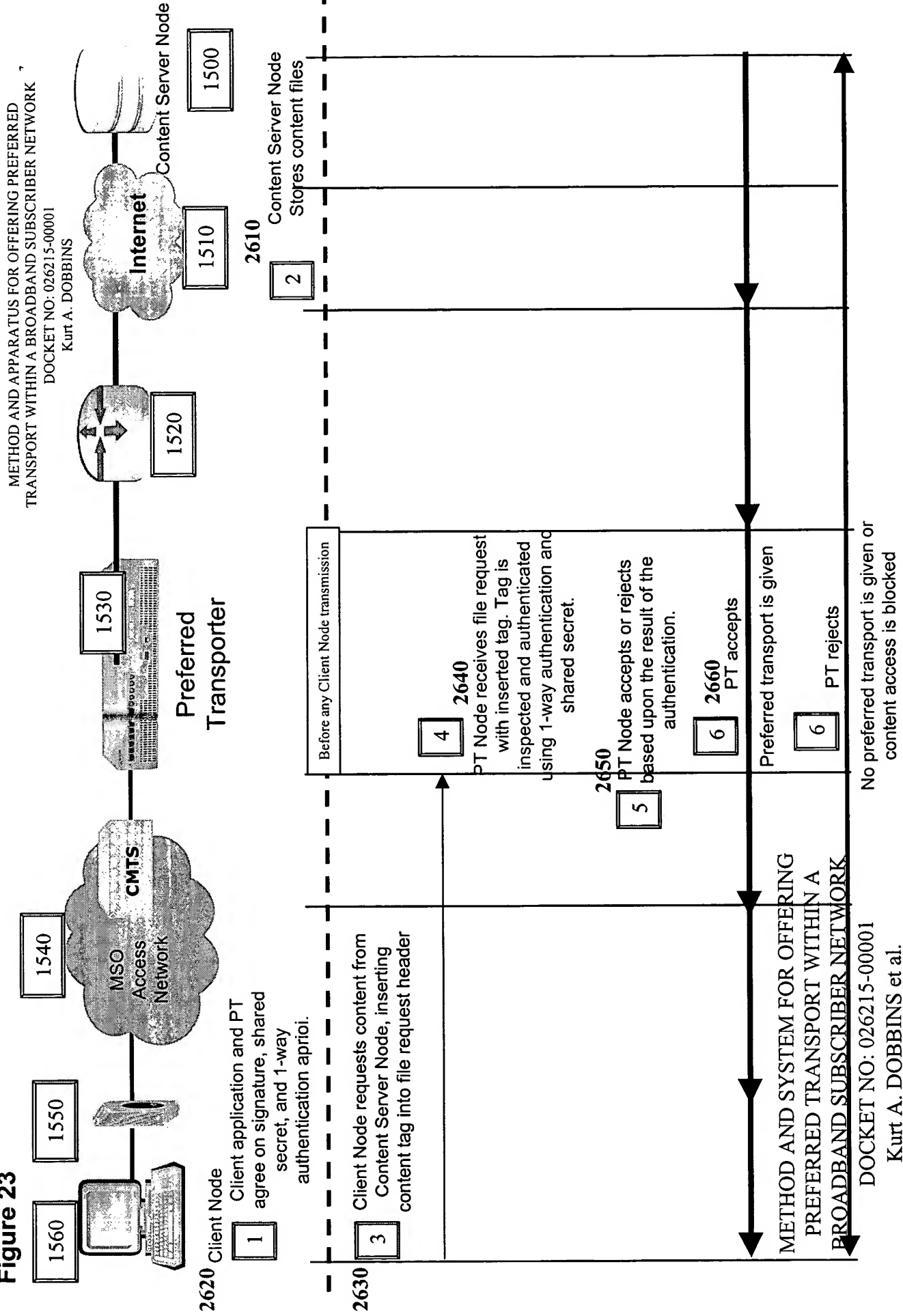
**Figure 22**



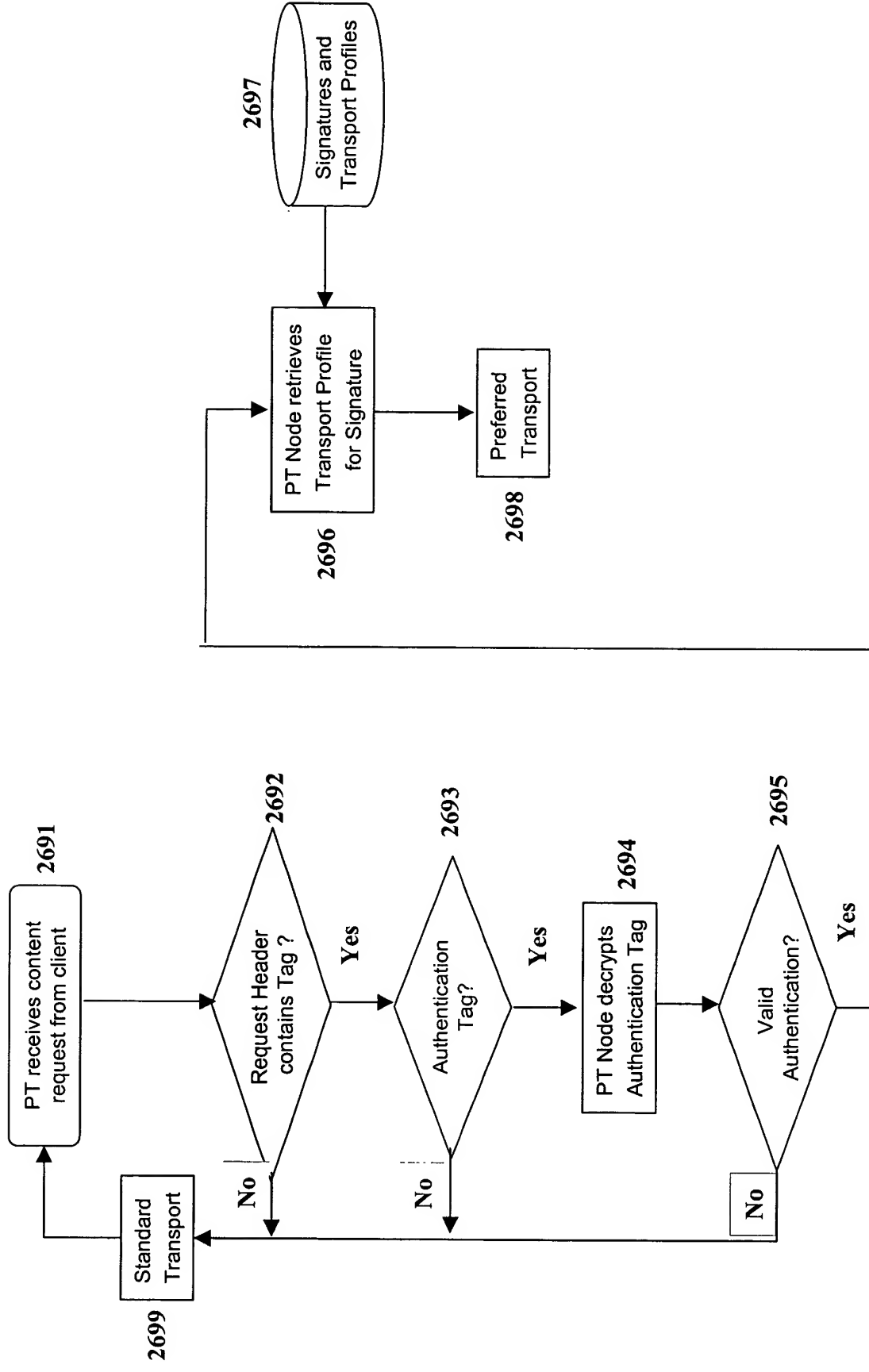
# Figure 22a



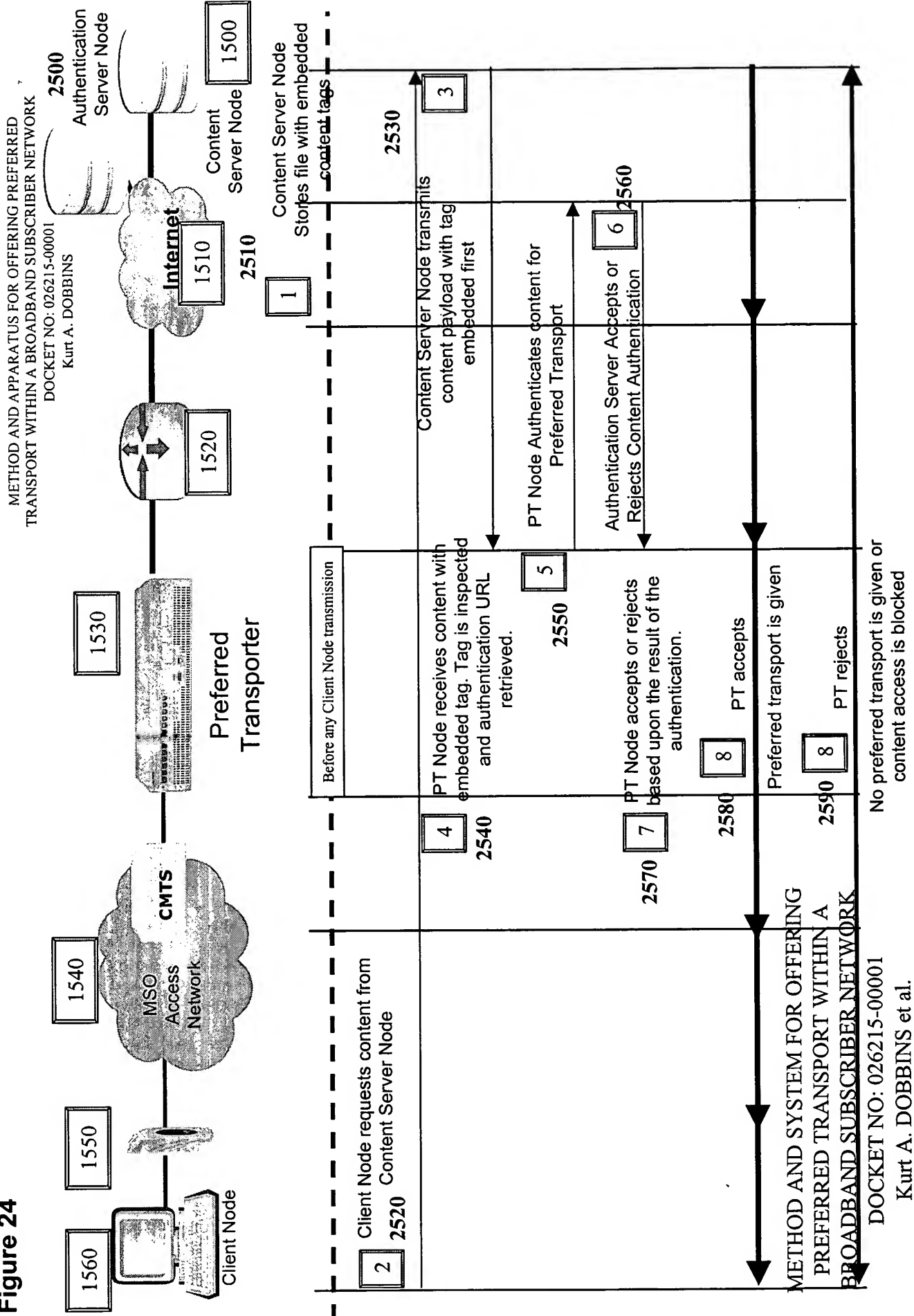
**Figure 23**



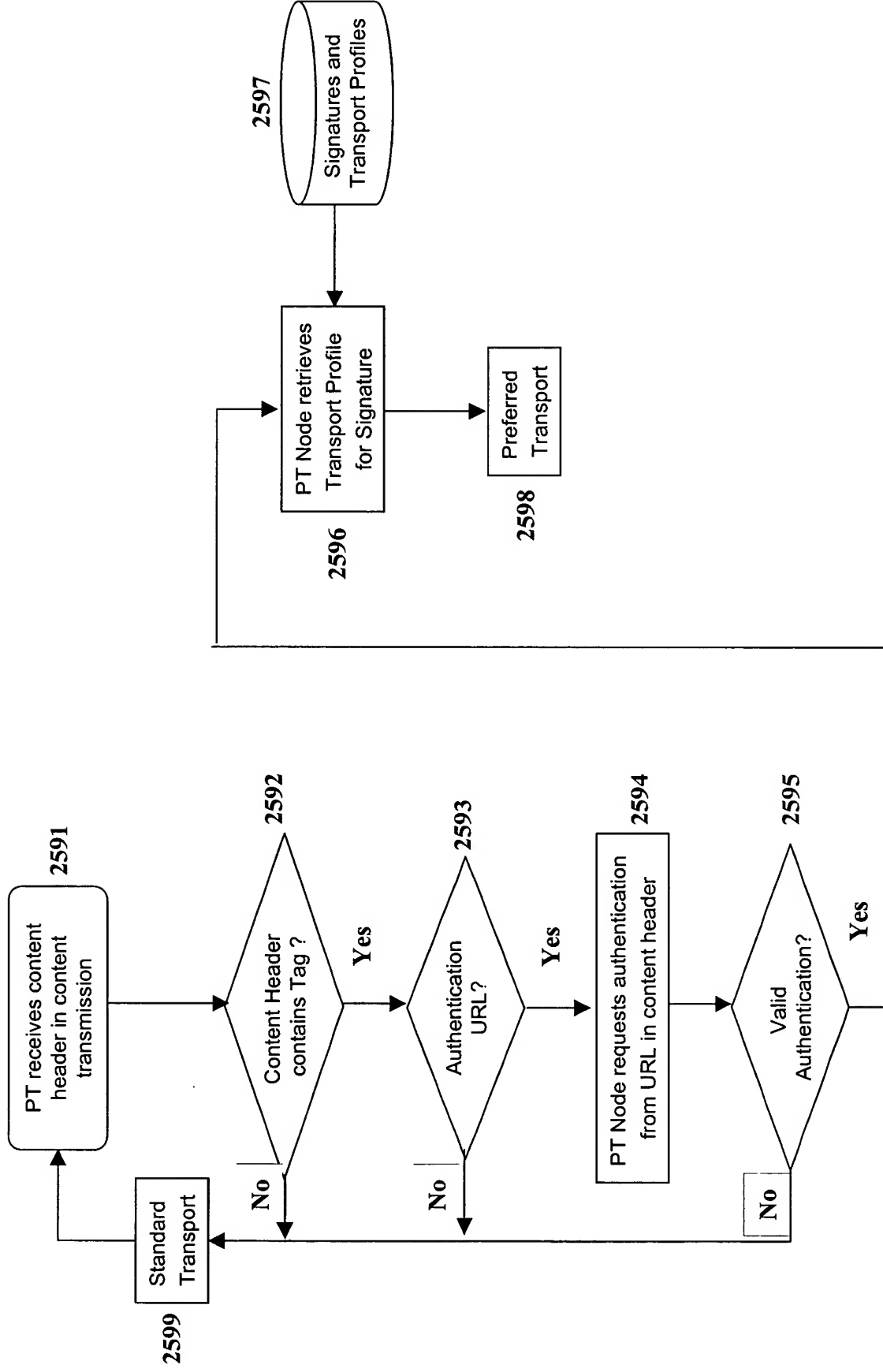
# Figure 23a



**Figure 24**



# Figure 24a



# Figure 25

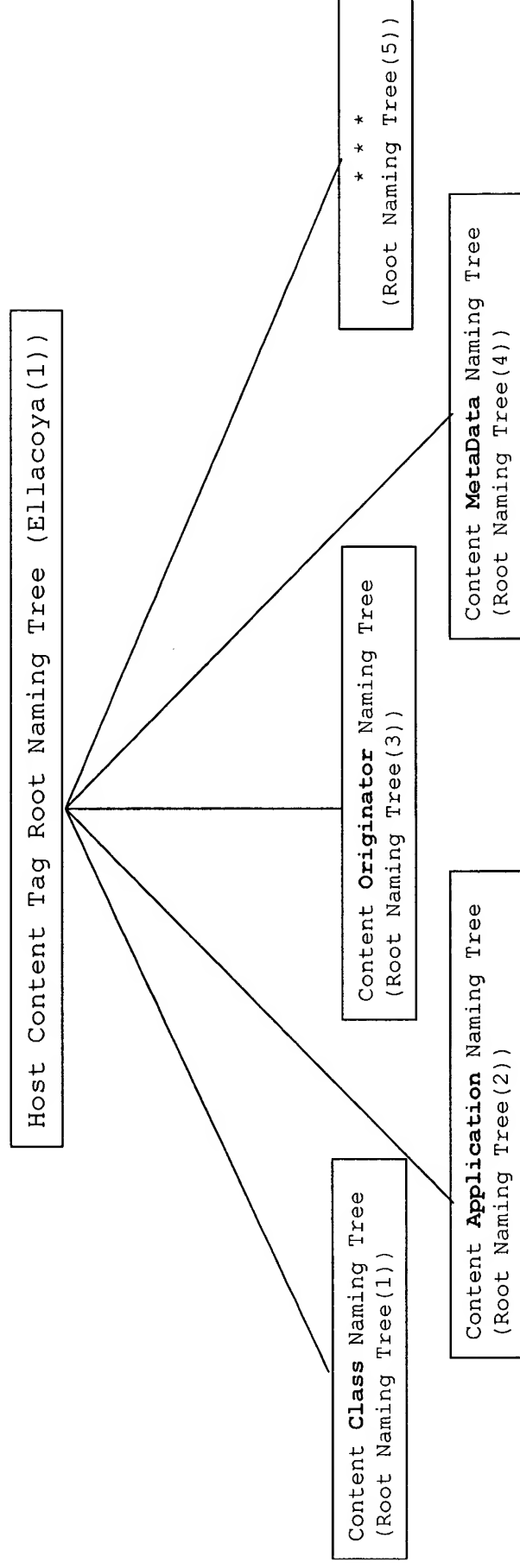
METHOD AND APPARATUS FOR OFFERING PREFERRED  
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DOCKET NO: 026215-00001  
Kurt A. DOBBINS

## ■ Leverage **OID Tree for Self-naming Tags**

- Gives digital representation to textual names
- Allows arbitrary hierarchy
- Extensible with new content types
- Packet encoding will use ASN.1 BER

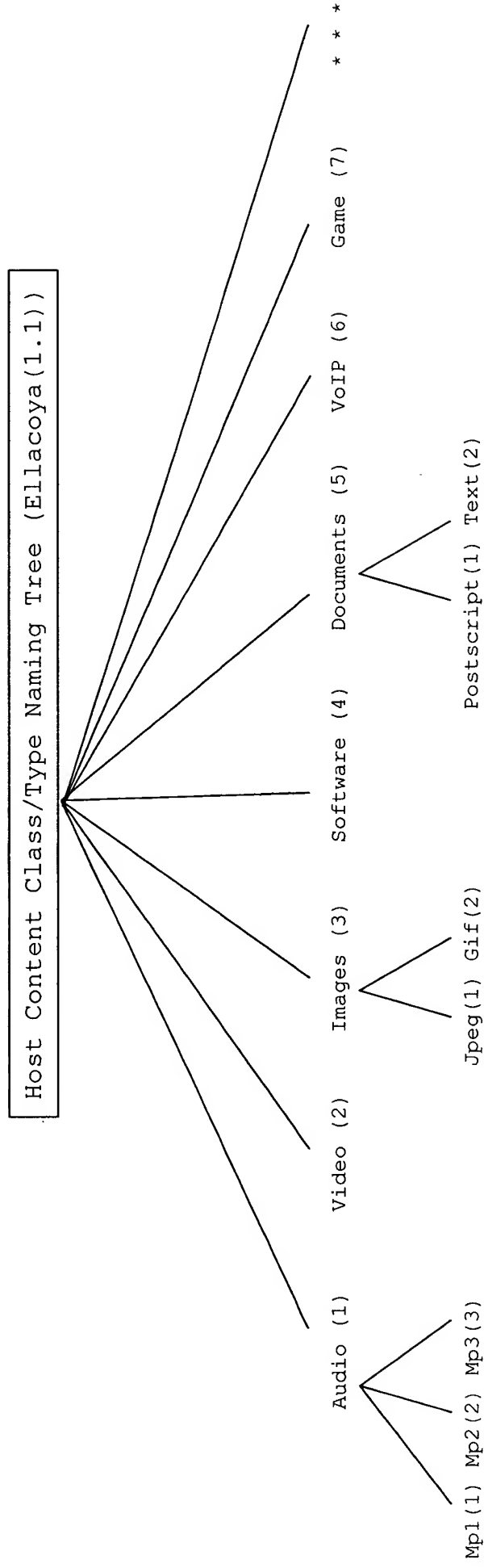
## ■ **Name Space Maintained by host**

- Publish as Informational IETF MIB



# Figure 26

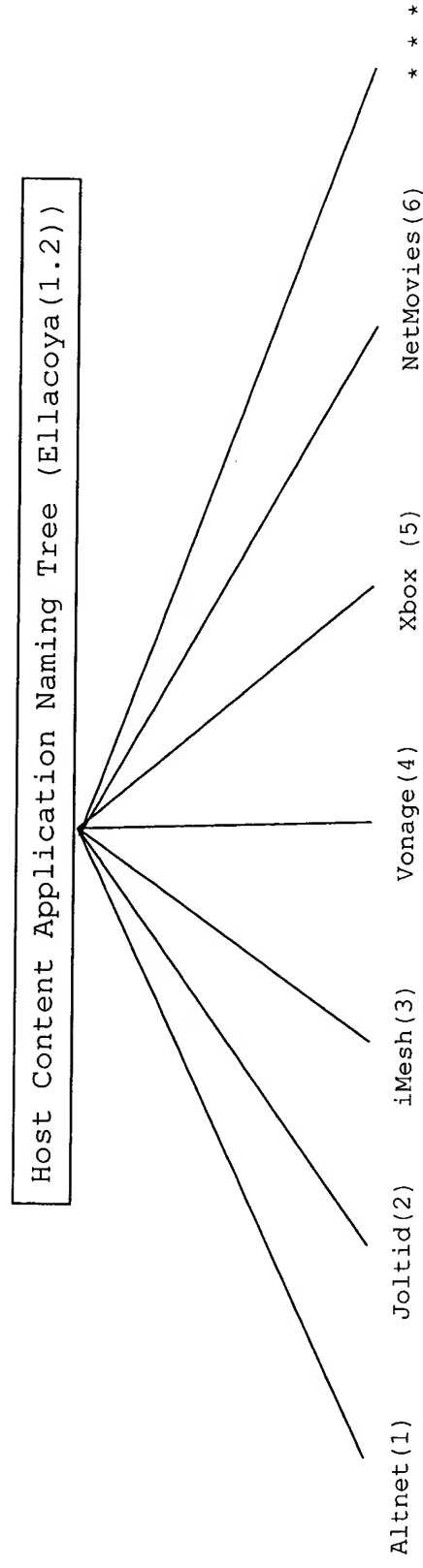
METHOD AND APPARATUS FOR OFFERING PREFERRED  
TRANSPORT WITHIN A BROADBAND SUBSCRIBER NETWORK  
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# Figure 27

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# Figure 28

METHOD AND APPARATUS FOR OFFERING PREFERRED  
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